

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) An analyzing cartridge ~~having~~ comprising a plurality of reservoirs ~~and a capillary, capillaries~~ connected for communication between these reservoirs, ~~characterized in that~~ at least one of said reservoirs ~~is provided with~~ having an openings opening leading to the outside of the analyzing cartridge, at least one of the reservoirs having an openings is opening being covered with a gas-permeable/non-liquid-permeable ~~[[vents]]~~ vent, and ~~the analyzing cartridge is provided therein with reagents~~ a reagent for use in analysis located in at least one of said reservoirs having an opening covered with a vent, at least a part of the reagent being a non-fluid reagent.

2-3. (Cancelled).

4. (Currently amended) The analyzing cartridge according to ~~any of claims claim 1 [[to 3]],~~ characterized in that wherein said vent is composed of a hydrophobic member having pores.

5. (Currently amended) The analyzing cartridge according to claim 4, ~~characterized in that~~ wherein said hydrophobic member having pores is a hydrophobic porous membrane.

6. (Currently amended) The analyzing cartridge according to claim 5, ~~characterized in that said~~ wherein the openings of a plurality of reservoirs are covered with a common hydrophobic porous membrane to form respective vents, and ~~for said~~

~~hydrophobic porous membrane~~, the portions of said hydrophobic porous membrane located between the reservoirs are deprived of porosity.

7. (Currently amended) The analyzing cartridge according to claim 6, ~~characterized in that for said hydrophobic porous membrane~~, wherein the portions of said hydrophobic porous membrane located between the reservoirs are deprived of porosity by applying pressure to the portions.

8-21. (Cancelled).

22. (New) The analyzing cartridge according to claim 1, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a calibration solution storing reservoir for storing a calibration solution for calibrating the result of analysis, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said calibration solution and said sample, a measuring reservoir for measuring said calibration solution and said sample, and a diluting reservoir for mixing said measured calibration solution or said measured sample with said diluent to dilute the same, and a capillary is connected for communicating said measuring reservoir with said calibration solution storing reservoir, with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

23. (New) The analyzing cartridge according to claim 4, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a calibration solution storing reservoir for storing a calibration solution for calibrating the result of analysis, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said calibration solution and said sample, a

measuring reservoir for measuring said calibration solution and said sample, and a diluting reservoir for mixing said measured calibration solution or said measured sample with said diluent to dilute the same, and a capillary is connected for communicating said measuring reservoir with said calibration solution storing reservoir, with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

24. (New) The analyzing cartridge according to claim 5, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a calibration solution storing reservoir for storing a calibration solution for calibrating the result of analysis, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said calibration solution and said sample, a measuring reservoir for measuring said calibration solution and said sample, and a diluting reservoir for mixing said measured calibration solution or said measured sample with said diluent to dilute the same, and a capillary is connected for communicating said measuring reservoir with said calibration solution storing reservoir, with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

25. (New) The analyzing cartridge according to claim 6, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a calibration solution storing reservoir for storing a calibration solution for calibrating the result of analysis, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said calibration solution and said sample, a measuring reservoir for measuring said calibration solution and said sample, and a

diluting reservoir for mixing said measured calibration solution or said measured sample with said diluent to dilute the same, and a capillary is connected for communicating said measuring reservoir with said calibration solution storing reservoir, with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

26. (New) The analyzing cartridge according to claim 7, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a calibration solution storing reservoir for storing a calibration solution for calibrating the result of analysis, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said calibration solution and said sample, a measuring reservoir for measuring said calibration solution and said sample, and a diluting reservoir for mixing said measured calibration solution or said measured sample with said diluent to dilute the same, and a capillary is connected for communicating said measuring reservoir with said calibration solution storing reservoir, with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

27. (New) The analyzing cartridge according to claim 1, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said sample, a measuring reservoir for measuring said sample, and a diluting reservoir for mixing said diluent with said measured sample to dilute the same, and a capillary is connected for communicating said measuring reservoir with said

sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

28. (New) The analyzing cartridge according to claim 4, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said sample, a measuring reservoir for measuring said sample, and a diluting reservoir for mixing said diluent with said measured sample to dilute the same, and a capillary is connected for communicating said measuring reservoir with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

29. (New) The analyzing cartridge according to claim 5, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said sample, a measuring reservoir for measuring said sample, and a diluting reservoir for mixing said diluent with said measured sample to dilute the same, and a capillary is connected for communicating said measuring reservoir with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

30. (New) The analyzing cartridge according to claim 6, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said sample, a measuring reservoir for measuring said sample, and a diluting reservoir for mixing said diluent with said measured sample to dilute the same,

and a capillary is connected for communicating said measuring reservoir with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

31. (New) The analyzing cartridge according to claim 7, wherein said analyzing cartridge includes, in addition to said reservoir containing said reagent, a sample storing reservoir for storing a liquid sample, a diluent storing reservoir for storing a diluent for diluting said sample, a measuring reservoir for measuring said sample, and a diluting reservoir for mixing said diluent with said measured sample to dilute the same, and a capillary is connected for communicating said measuring reservoir with said sample storing reservoir, with said diluent storing reservoir and with said diluting reservoir, respectively.

32. (New) A method of producing the analyzing cartridge according to claim 1, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

33. (New) A method of producing the analyzing cartridge according to claim 4, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

34. (New) A method of producing the analyzing cartridge according to claim 5, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

35. (New) A method of producing the analyzing cartridge according to claim 6, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

36. (New) A method of producing the analyzing cartridge according to claim 7, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

37. (New) A method of producing the analyzing cartridge according to claim 22, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

38. (New) A method of producing the analyzing cartridge according to claim 23, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

39. (New) A method of producing the analyzing cartridge according to claim 24, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

40. (New) A method of producing the analyzing cartridge according to claim 25, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

41. (New) A method of producing the analyzing cartridge according to claim 26, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to capillaries in one plate face of the plane member,

covering the opposite plate face of said plane member that does not have said grooves with a material capable of providing said vent,

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves; and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

42. (New) A method of producing the analyzing cartridge according to claim 4 or 5, comprising:

providing through-holes at positions corresponding to said reservoirs in a plane member and providing grooves at positions corresponding to said capillaries in one plate face of the plane member;

covering the opposite plate face of said plane member that does not have said grooves with said hydrophobic member having pores;

locating said reagent in said through-hole corresponding to the reservoir containing said reagent for storing said reagent, from the plate face of said plane member having said grooves, and

covering the plate face of said plane member having said grooves with a cover sheet to form said reservoirs and said capillaries.

43. (New) A method of producing the analyzing cartridge according to claim 32, wherein after the reagent is located in said reservoir having an opening covered with said vent, the reagent is rendered non-liquid by drying the same.

44. (New) A method of producing the analyzing cartridge according to claim 43, wherein the material capable of providing said vent is a hydrophobic member having pores.

45. (New) The analyzing cartridge according to claim 1, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

46. (New) The analyzing cartridge according to claim 4, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

47. (New) The analyzing cartridge according to claim 5, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

48. (New) The analyzing cartridge according to claim 6, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

49. (New) The analyzing cartridge according to claim 7, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

50. (New) The analyzing cartridge according to claim 22, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the

entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

51. (New) The analyzing cartridge according to claim 23, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

52. (New) The analyzing cartridge according to claim 24, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

53. (New) The analyzing cartridge according to claim 25, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

54. (New) The analyzing cartridge according to claim 26, including a liquid feed control device attached to the analyzing cartridge that controls the feeding of a liquid between said any reservoirs via said capillaries by allowing or regulating the entry/exit of a gas via said vent, thereby letting said liquid flow into said reservoirs or letting said liquid flow from said reservoirs via said capillaries.

55. (New) The analyzing cartridge according to claim 45, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

56. (New) The analyzing cartridge according to claim 46, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

57. (New) The analyzing cartridge according to claim 47, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

58. (New) The analyzing cartridge according to claim 48, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

59. (New) The analyzing cartridge according to claim 49, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

60. (New) The analyzing cartridge according to claim 50, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with

said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

61. (New) The analyzing cartridge according to claim 51, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

62. (New) The analyzing cartridge according to claim 52, wherein the liquid feed control device includes valves placed in positions opposite to said reservoirs with said vents therebetween, in which the entry/exit of the gas via said vents is allowed or regulated by the valves.

63. (New) The analyzing cartridge according to claim 45, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

64. (New) The analyzing cartridge according to claim 46, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

65. (New) The analyzing cartridge according to claim 47, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

66. (New) The analyzing cartridge according to claim 48, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

67. (New) The analyzing cartridge according to claim 49, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

68. (New) The analyzing cartridge according to claim 50, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers

and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

69. (New) The analyzing cartridge according to claim 51, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

70. (New) The analyzing cartridge according to claim 52, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

71. (New) The analyzing cartridge according to claim 53, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

72. (New) The analyzing cartridge according to claim 54, wherein the liquid feed control device includes couplers placed in positions opposite to said reservoirs with said vents therebetween, and attached to said vents in such a manner as to cover said

openings, pumps coupled to said couplers, and valves placed between said couplers and said pumps, in which the entry/exit of the gas via said vents is allowed or regulated by at least one of said pump or said valve.

73. (New) A method of analyzing a sample using the analyzing cartridge according to claim 1, comprising:

feeding a reagent dissolving liquid from a reagent dissolving liquid storing reservoir in which said reagent dissolving liquid for dissolving said reagent is stored to a reagent storing reservoir in which said reagent is stored through said capillaries, and dissolving said reagent, at least a part of which is a non-fluid reagent, to prepare a reagent solution immediately before analysis is carried out.

74. (New) The method of analyzing a sample using the analyzing cartridge according to claim 73, including mixing and reacting together a sample which is liquid and said reagent solution in said reagent storing reservoir using said capillaries.